



U. S. Department of Agriculture  
Forest Service  
Southeastern Area  
State & Private Forestry

# FOREST PEST MANAGEMENT

Report No. 82-3-43

Issued: 9-9-82

AERIAL DETECTION SURVEY OF FOREST INSECT  
AND DISEASE ACTIVITY, SUMTER NATIONAL  
FOREST, SOUTH CAROLINA

LAND OWNERSHIP OR SURVEY AREA: Sumter National Forest, Andrew Pickens  
Ranger District

STATE: South Carolina

AREA WITHIN SURVEY BOUNDARY: 128,000 acres

PERCENT COVERAGE: 50%

AIRCRAFT: Cessna 172

CREW: R. Bassett & T. Gentry

## SURVEY OBJECTIVES

The objective of this survey was to detect the presence of forest insect and disease activity on the Sumter National Forest. Special emphasis was placed on delineating areas of red and fading pine trees suspected to contain populations of the southern pine beetle.

## SURVEY RESULTS

Spots of red and fading pine trees suspected to be caused by the southern pine beetle were detected. Table I shows the number and size categories of these spots. The attached map (Figure I) shows the location and the estimated number of red and fading pine trees at each of these spots. A copy of the flight map has also been sent to the District office. Some of the suspected spots appeared to be currently infested as indicated by the presence of "faders", i.e., yellowish or straw-colored crowns. This was true of the four spots clustered on the Chattooga River near Wells Mountain.

## CONCLUSIONS

The causal agent is assumed to be southern pine beetle. A biological evaluation should be conducted by the Asheville Field Office to determine if southern pine beetle populations are increasing and make recommendations pertaining to control.

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For additional information, contact:

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Doraville, GA 30340  
Telephone: 404/221-4796

or

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P.O. Box 2570  
Asheville, NC 28802  
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Table I -- Summary of Aerial Survey Data, Andrew Pickens Ranger District, Sumter National Forest, August 30, 1982

Ownership:	Infestation Size (# Trees)									
	3 - 5		6 - 20		21 - 50		50+		Total	
	Spots-Trees		Spots-Trees		Spots-Trees		Spots-Trees		Spots-Trees	
Federal	5	16	8	97	5	175	2	250	20	538
Private	2	9	1	10	1	25	0	0	4	44

